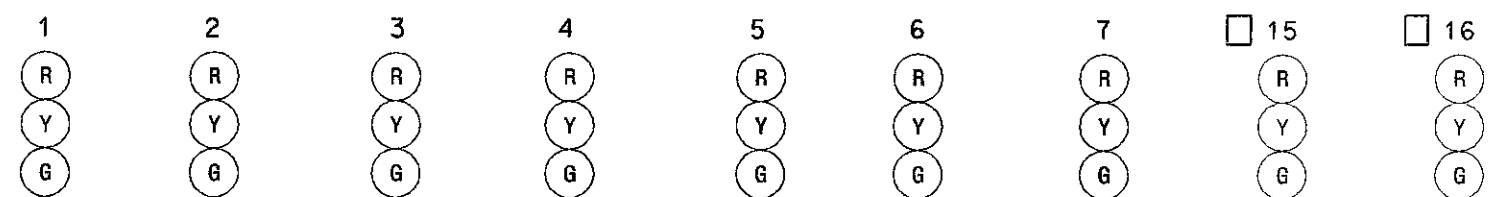


PHASE CHART



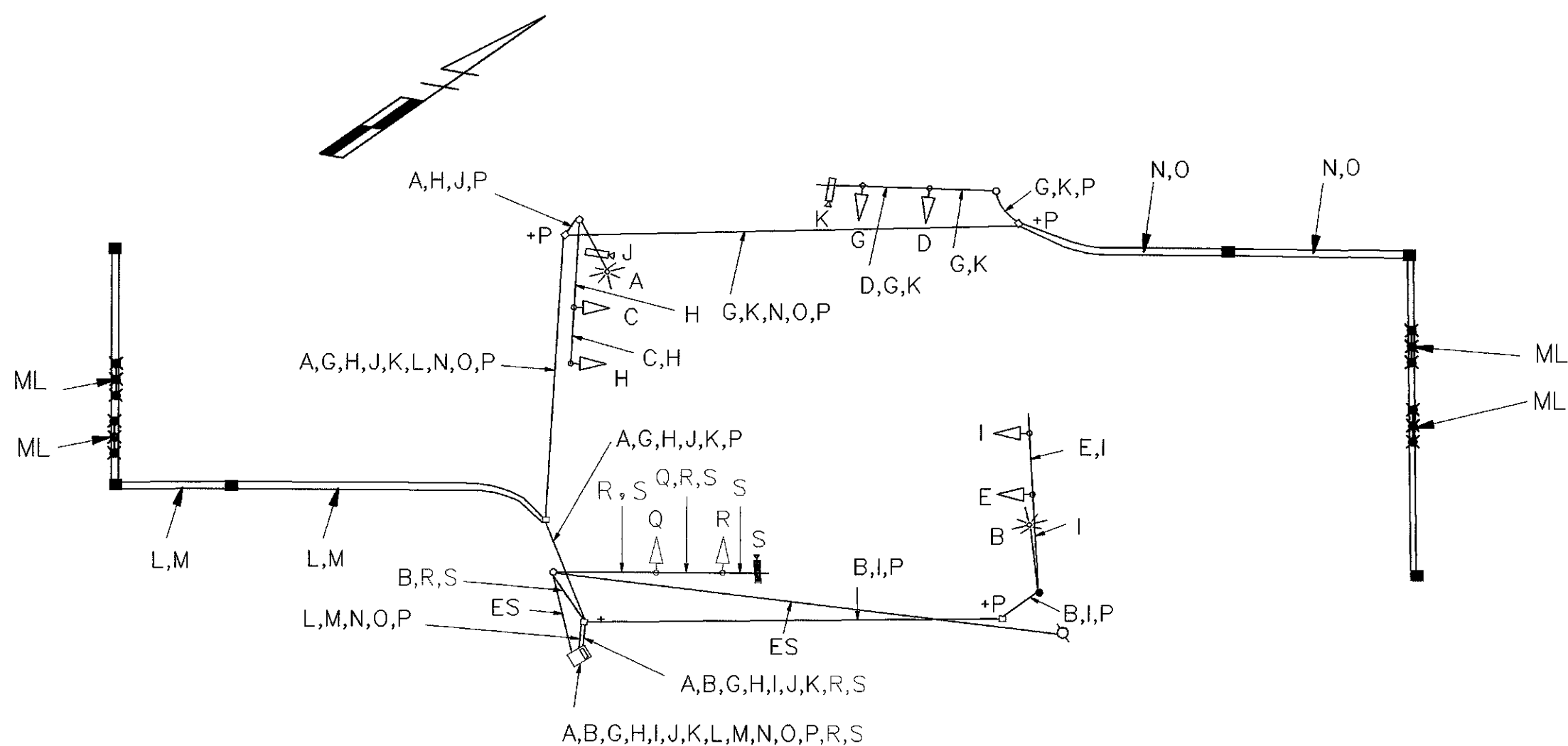
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	
PHASE 4 + 8	R	R	R	R	R	G	G	G	G	
4 + 8 CHANGE	R	R	R	R	R	R	R	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
555	585448	1 EACH	FURNISH AND INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
556	585624	120 L.F.	FURNISH AND INSTALL 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
805	870167	250 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
805	805150	300 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
810	861116	520 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2-CONDUCTOR (NO 12 AWG)
810	800000	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500' LEAD-IN
810	800000	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1,000' LEAD-IN
805	870160	650 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
815	862102	6 EACH	INSTALL ELECTRICAL HANDHOLE

WIRING DIAGRAM



PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT MD 7 AND INDUSTRIAL PARK ROAD IN BALTIMORE COUNTY. MD 7 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE SIGNAL WILL OPERATE IN A NEMA ~~THREE~~ ^{FOUR}-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH MD 7 APPROACHES RUNNING CONCURRENTLY AND INDUSTRIAL PARK ROAD ~~RUNNING ALONE~~, AND NOTTINGHAM DRIVE WILL OPERATE CONCURRENTLY.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
813	900000	1 EACH	FOUR CHANNEL LOOP- DETECTOR AMPLIFIER (DELAY OUTPUT)
813	973023	27.25 S.F.	SHEET ALUMINUM SIGNS
		1 EACH	ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (24" x 51") POLE MOUNT: M3-2 SIGN (24" x 12") "EAST" (FOR INDEPENDENT USE) M1-6 SIGN (24" x 24") "MARYLAND 7" (FOR INDEPENDENT USE) M6-1 SIGN (21" x 15") "DIRECTIONAL - ARROW - HORIZONTAL"
		1 EACH	ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (36" x 75") POLE MOUNT: M3-4 SIGN (30" x 15") "WEST" (FOR INDEPENDENT USE) M1-6 SIGN (36" x 36") "MARYLAND 7" (FOR INDEPENDENT USE) M6-1 SIGN (30" x 24") "DIRECTIONAL - ARROW - HORIZONTAL"

WIRING KEY

A,B	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)	N,O	MICRO-LOOP PROBE SET WITH 1,000' LEAD-IN
C,D,E,Q	5-CONDUCTOR CABLE (NO. 14 A.W.G.)	P	BARE COPPER STRANDED GROUND WIRE (NO. 6 A.W.G.)
G,H,I,R	7-CONDUCTOR CABLE (NO. 14 A.W.G.)	ES	EXISTING OVERHEAD ELECTRICAL SERVICE
J,S	250' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET	+	EXISTING 3/4 IN. x 10 FT. GROUND ROD
K	500' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET	ML	MICRO-LOOP PROBE SET
L,M	MICRO-LOOP PROBE SET WITH 500' LEAD-IN		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
810	861107	95 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
810	861108	1235 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
810	802501	565 L.F.	FURNISH AND INSTALL NO.6 STRANDED BARE COPPER GROUND WIRE
813	813015	27.25 S.F.	INSTALL OVERHEAD SIGN
814	860265	6 EACH	RELOCATE EXISTING SIGNAL HEAD
814	800000	3 EACH	FURNISH AND INSTALL 12 INCH BLACK FACE VEHICULAR TRAFFIC SIGNAL HEAD SECTION
-----	800000	6 EACH	RELOCATE EXISTING SIGN ON MAST ARM
-----	800000	1 EACH	UNCOVER EXISTING SIGNAL HEAD
-----	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
-----	800000	1 EACH	CUT, CLEAN GALVANIZE AND CAP TRAFFIC SIGNAL MAST ARM
-----	816005	1 EACH	FURNISH AND INSTALL 250 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
-----	816010	1 EACH	FURNISH AND INSTALL 500 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
-----	800000	2 EACH	RE-AIM VIDEO DETECTION CAMERA

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY CONTRACTOR. (FOR NOTTINGHAM DRIVE ACCESS.)

555	585624	45 L.F.	FURNISH AND INSTALL 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
810	861107	30 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
810	861108	90 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG) -
813	973023	2 EACH	R3-5(L) (30" X 36")
813	973023	22 S.F.	PANEL FOR ADVANCE WARNING SIGN CHANGES: SIGN NO. 21 (16" X 96") ON SHEET NO. 2.4 SIGN NO. 38 (16" X 96") ON SHEET NO. 2.6
814	800000	6 EACH	FURNISH AND INSTALL 12 INCH BLACK FACE VEHICULAR TRAFFIC SIGNAL HEAD SECTION
816005		1 EACH	INSTALL CAMERA AND 250 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 321-2781	THE POWER COMPANY REPRESENTATIVE IS: BALTIMORE GAS ELECTRIC COMPANY MR. JOSEPH G. BUNCH INDUSTRIAL / COMMERCIAL SERVICES NEW BUSINESS CONSTRUCTION 7317 PARKWAY DRIVE SOUTH PHONE: (410) 859-9030
MR. JOE McMAHON UTILITY ENGINEER PHONE: (410) 321-2780	MR. PHILIP HUMBERTSON SPECIAL PROJECTS PHONE: (410) 321-2851
MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630	

FINAL SIGNAL DESIGN SS-14

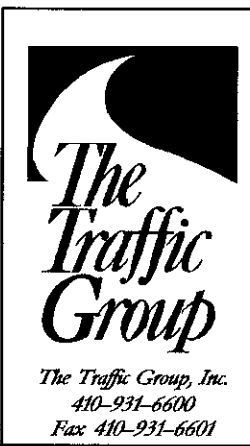


MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 7 (Philadelphia Road) at
Industrial Park Road

DRAWN BY: A. A.	F.A.P. NO. N/A	TS NO. 3561A-GII	SHEET NO. 210A OF 237
CHECKED BY: J. A. B.	S.H.A. NO. BWB13-802-412	T.I.M.S. NO. D770	
SCALE: SCALE: N/A	COUNTY: BALTIMORE	LOG MILE: 03000706.62	
DATE: DATE: 9-26-95			

REDLINE REVISION



HURST-ROSCHKE ENGINEERS, INC.
80 Scott Adam Road
Suite 100
Cockeysville, MD 21030
410-683-1880

GEOMETRIC LEGEND
EXISTING GEOMETRICS
PROPOSED GEOMETRICS
UTILITY LEGEND
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
STORM DRAIN
AERIAL CABLES
TELEPHONE CABLES

REVISIONS
RED LINE REVISION THIS SHEET REPLACES SHEET S.H.A. No. BA2135176
RED LINE REVISION 6 THIS SHEET REPLACES SHEET 210 S.H.A. No. BA2135176
MODIFY SIGNAL FOR NEW GEOMETRICS S.H.A. No. BA2135176